S3 APPENDIX Characteristics of retracted COVID-19 articles (N=46)

(References are listed below the table)

Reference	Version(s) available at source journal or preprint server at	Retractor	Paper source (journal or	Study type	Retraction reason	Comments
	05 September 2020		preprint server)			
Adjodah et	Retraction notice and full text	Authors	medRxiv preprint	Analysis of	Increased rates of SARS	Original unmarked
al. 2020 [1]	with all pages clearly		server	existing	Cov-2 in the areas originally	abstract available in
(USA)	watermarked "Withdrawn"			epidemiological	analysed; authors will	WHO COVID literature
	available at medRxiv preprint			datasets	provide new analyses to	collection at 19th
	server (via Google Scholar)				address this	December 2020
Alhowary	Only the retraction notice is	Authors and/or	Annals of	Case series	Not stated	Original unmarked full
et al. 2020	available at the journal	journal	Medicine and	case series	Not stated	text available on
[2]	website	journar	Surgery			ResearchGate at 19 th
(Jordan)	Website		Surgery			December 2020
An et al.	Retraction notice and original	Authors	Annals of Clinical	Case series	Major error in data entry	Original unmarked
2020 [3]	unmarked abstract available	Additions	and Laboratory	case series	for analysis	abstract still available at
(China)	at journal website. Abstract		Science (not open		Tor unarysis	journal website (see
(Cilila)	page of journal states a		access)			left) and on
	retraction has been published		4666337			ResearchGate at 19 th
	but access to the retraction					December 2020
	notice and the full text article					December 2020
	requires a subscription					
Argyro-	The retraction notice [5] and	Journal	American Journal	Retrospective	Accidental duplicate	
poulos et	original article which was	000.1101	of Pathology	analysis	publication	
al. 2020 [4]	duplicated are available at the		3 athorogy	anarysis	P 4 2 04 C O I I	
(USA)	journal website					

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
Bae et al. 2020 [6] (S Korea)	Retraction notice [7] and marked full text available at journal website: Original online full text with single one-line "retracted" statement above abstract Original PDF full text with all pages watermarked "retracted"	Journal	Annals of Internal Medicine	Prospective controlled comparison	Data reporting error	
Beato- Vibora 2020 [8] (Spain)	Retraction notice and the original PDF full text, with "Retracted:" added to the article title available at the journal website [8]	Journal	Diabetes Technology & Therapeutics	Before-after study	Violation of publication ethics	Study reported in detail in Medscape Without indication of retraction at 19 th December 2020. Note added in Medscape by 6 th January 2021 that the cited study had been retracted.
Bility et al. 2020 [9] (USA)	Only the <u>retraction notice</u> [9] is available at the journal website	Authors and editors	Science of the Total Environment	Comparative/ correlative study of	Not stated	Original unmarked full text available on

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
				relationship of COVID-19 to geologic factors		ResearchGate at 19 th December 2020
Cercy 2020 [10] (USA)	Original abstract, headed "withdrawn" Original PDF full text, unmarked	Authors	Preprint server (medRxiv)	Medical record review	Privacy issues regarding study conduct (contested by author)	Original unmarked full text available on the preprint server (see left) and on ResearchGate at 19th December 2020
Chen et al. 2020 [11] (multi- national)	3 original versions of abstract, all headed "withdrawn" (v1, v2, v3) 3 original PDF versions of retracted full text, all unmarked (v1, v2, v3).	Authors	Preprint server (bioRxiv)	Prediction model	Lack of full author consent	Original unmarked full text available on ResearchGate at 19 th December 2020
Chen et al. 2020 [12] (China)	Only the <u>retraction notice</u> [12] is available at the journal website	Authors	Liver International (published online as an accepted article)	Unclear - we do not have access to the full text.	Authors decided on reflection that the opinions expressed were incomplete [12] NB original first author was Chen but subsequent	Journal site reports original article cited in two research papers [13, 14]

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
					correspondence refers to Zhou (corresponding author)	
Chu et al. 2020 [15] (multi- national)	Original abstract, headed "withdrawn" Original PDF full text, all pages watermarked "withdrawn" Original supplementary material, unmarked (file 1, file 2)	Authors	Preprint server (bioRxiv)	Molecular simulation study	To conduct further verification experiments	Original unmarked abstract available on ResearchGate at 19 th December 2020
Davido et al. 2020 [16] (France)	Original abstract, headed "withdrawn" Original PDF full text, unmarked	Authors	Preprint server (medRxiv)	Retrospective comparison	To revise after peer review following hydroxychloroquine controversy	Original unmarked full text available on the preprint server (see left) at 13 th December 2020
Dumantepe et al. 2020 [17]	Only the <u>retraction notice</u> is available at the journal website	Authors	Heart, Lung and Circulation	Unknown. Full text not available	Not stated. A <u>temporary</u> removal notice on PMC states the reason for	Original unmarked abstract still available at

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
(Turkey)	(withdrawn article marked in press)				removal will be specified in the replacement article, or the article will be reinstated.	ClinOwl website at 19 th December 2020
El Assaad et al. 2020 [18] (USA)	The <u>retraction notice</u> and the <u>original article</u> are available at the journal website	Journal	JACC Case Reports	Case study	Accidental duplicate publication	
Etemadifar et al. 2020 [19] (Iran)	Only the <u>retraction notice</u> is available at the journal website	Authors and Editor	Revue Neurologique (published online as an accepted article)	Unclear - we do not have access to the full text.	Not stated	Original unmarked abstract available online at Chinese website
Fioranelli et al. 2020 [20] (multi- national)	Only retraction notice is available at the journal website	Journal	Journal of Biological Regulators & Homeostatic Agents	Theoretical study/review badged as an editorial	Manipulation of the peer review Science Integrity Digest blog (with archive of the original full text)	Original unmarked full text available from multiple online sites: 47 cites on 5 th September 2020 and 60 sites on 19 th December 2020 and 26 th June 2021 as listed in Google Scholar (see Appendix 4).

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
Gaibazzi et al. 2020 [21] (multi- national)	2 original versions of abstract, both headed "withdrawn" (v1, v2) 2 original PDF versions of retracted full text, both unmarked (v1, v2) Original supplementary material, unmarked	Authors (as requested by their IRB)	Preprint server (medRxiv)	Retrospective case series	Objectives not approved by local IRB	Original unmarked abstract available in WHO COVID literature collection and on ResearchGate at 19th December 2020 Original full text available on the preprint server (see left) and ResearchGate as unretracted version at 19th December 2020
Gaibazzi et al. 2020 [22] (multi- national)	2 original versions of abstract, both headed "withdrawn" (v1, v2) 2 original PDF versions of retracted full text, both unmarked (v1, v2)	Authors	Preprint server (medRxiv)	Retrospective case series	Objectives not approved by local IRB	Study reported in detail by national newspaper [23] Original full text available on the preprint server (see left) at 19th December 2020

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
Hedima et al. 2020 [24] (Nigeria) Huang & Zhao 2020 [26] (China)	Retraction notice [25] plus the original article which had been duplicated available at journal website Full text available at journal website with all pages clearly watermarked "Retracted" (duplicate of another paper [27])	Journal Authors and Editor	Research in Social and Administrative Pharmacy Psychology, Health and Medicine	Narrative review Web-based cross-sectional survey	Accidental duplicate publication Duplicate publication and failure of one author to satisfy authorship criteria [28] (October 2020)	Triple publication - same as Huang & Zhao [29]
Huang & Zhao 2020 [29] (China)	Full text available at journal website with all pages clearly watermarked "Retracted" (duplicate of another paper [27])	Editor in Chief	Asian Journal of Psychiatry	As above – same study	Duplicate publication [30] (June 2020)	Triple publication – same as Huang & Zhao [26]
Irshad et al. [31] (Pakistan)	Only <u>retraction notice</u> [31] is available at the journal website	Journal	International Journal of Mental Health Nursing	Online cross- sectional survey	Reuse of a copyrighted questionnaire without permission	Original unmarked full text available on PubMed Central and

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
Kanwar 2020 [32]	Retraction notice only available on PubMed; no	Journal	American Journal of Respiratory &	Unclear - full text not	Not stated	original abstract available on ResearchGate at 19 th December 2020 Original unmarked abstract available on
(USA)	information at the journal website		Critical Care Medicine	available		ClinOwl at 19 th December 2020
Karami et al. 2020 [33] (Iran)	None	Authors	Travel Medicine and Infectious Disease	Case study	Failure to demonstrate first event	Original unmarked abstract available on ResearchGate at 19 th December 2020
Kim et al. 2020 [34] (S Korea)	Original abstract, headed "withdrawn" Original PDF full text, unmarked	Authors	Preprint server (medRxiv)	Retrospective cohort study	Due to "controversy about HCQ and potential changes to results after peer review"	Original unmarked full text available on the preprint server (see left) at 19 th December 2020
Kumar 2020 [35] (India)	None	No information	Journal of Molecular Pharmaceuticals and Regulatory Affairs	No information	No information	Unclear

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
Luowei et al. 2020 [36] (China)	Original abstract [in Chinese], headed "withdrawn"	Journal	Practical Preventive Medicine	Case series	No information	Study was described in considerable full-page detail in national newspapers [37, 38]
Maltezou et al. 2020 [39] (Greece)	Only the retraction notice was available at the journal website at 19 th December 2020; however, this had been removed and a <u>version of the full text had been reinstated</u> without any accompanying explanation by 6 th January 2021	Not reported	Journal of Hospital Infection	Unknown. Abstract and full text not available	Not stated. A temporary removal notice was present on Pubmed at 19 th December 2020 but had been removed by 6 th January 2021.	The temporary removal notice stated the reason for removal would be specified in the replacement article, or the article would be reinstated, but no explanation was provided
Mehra et al. 2020 [40] (USA)	Original online full text with all pages watermarked "retracted" Original PDF full text with all pages watermarked "retracted"	Authors (following journal Expression of concern [41])	Lancet	Multinational registry analysis	Data veracity concerns	Impact on WHO international hydroxy- chloroquine trial [42]

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
Mehra et al. 2020 [43] (USA)	Original online full text with narrow "retracted" banner on home page (article itself unmarked) Original PDF full text with "retracted" statement at top of first page	Authors (following journal Expression of concern [44])	New England Journal of Medicine	Multinational registry analysis	Ditto, same study	Cited before retraction in NEJM editorial [45] which had not been altered at 19 th December 2020 Temporarily cited by WHO guidelines [46]
Mulvey et al. 2020 [47] (USA)	Retraction notice plus the original article which had been duplicated available at journal website	Publisher	Annals of Diagnostic Pathology	Case series	Accidental duplication of an article already published in the same journal by the same authors (slightly different title)	Original unmarked abstract still available on ResearchGate at 19 th December 2020
Nouvier et al. 2020 [48] (France)	Original PDF [in English and French], watermarked "retracted"	Authors	Bulletin de la Dialyse à Domicile	Case study	Suspected false positive result	
Parves et al. 2020 [49] (Bangla- desh)	Original abstract, headed "withdrawn" Original PDF full text, all pages watermarked "withdrawn"	Authors	Preprint server (bioRxiv)	Molecular analysis	Lack of consent to use data	

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
Patel et al. 2020 [50] (USA)	None (NB: Original PDF of full text available from alternative online source, all pages watermarked "retracted")	Authors	Preprint server (SSRN)	Multinational registry analysis	No information	Controversial link to Surgisphere company implicated in research misconduct [51]
Patel et al. 2020 [52] (USA)	None	Authors	Preprint server (SSRN)	Multinational registry analysis	No information	Original unmarked full text available at alternative online source at 19th December 2020
Pradhan et al. 2020 [53] (India)	Original abstract, headed "withdrawn" Original PDF full text, all pages watermarked "withdrawn"	Authors	Preprint server (bioRxiv)	Genomic analysis	To revise based on feedback	Original unmarked full text available on ResearchGate at 19th December 2020 Among the top 10 COVID-19 preprints tweeted up to 30th April 2020 [54]

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
Raharusuna et al. 2020 [55] (Indonesia)	None	No information	Preprint server (SSRN)	Retrospective cohort study	No information	Original PDF full text available, unmarked, at alternative online source at 19th December 2020
Singh et al. 2020 [56] (India)	Full text available at journal website with all pages clearly watermarked "Retracted"	Editorial Board and Publication Ethics Committee	Korean Journal of Anesthesiology	Brief narrative review	Plagiarism (September 2020)	
Siyu et al. 2020 [57] (China)	Original abstract, headed "withdrawn" Original PDF full text, unmarked	Authors	Preprint server (medRxiv)	Online questionnaire survey	To conduct further verification experiments	Original unmarked full text available on the preprint server (see left) and ResearchGate at 19th December 2020
Vavougios 2020 [58] (Greece)	Only the <u>retraction notice</u> is available at the journal website	Authors and/or editor	Free Radical Biology and Medicine	Gene sequencing study	Not stated	Original unmarked abstract available on ResearchGate at 19 th December 2020
Wang et al. 2020 [59] (China)	None	No information	Zhonghua Er Ke Za Zhi	Case series/registry analysis	No information	Original unmarked abstract available (in Chinese) on ResearchGate at 19 th December 2020

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
Wang et al. 2020 [60] (multi- national)	Original PDF full text with all pages watermarked "retracted"	Authors	Cellular & Molecular Immunology	In vitro immunology study	Major flaw in methodology	
Wei et al. 2020 [61] (China)	Only the retraction notice is available at the journal website	Authors and/or editor	Clinical Imaging	Retrospective imaging case series analysis	Not stated but appears to be a duplicate of an <u>article</u> in Journal of X-Ray Science & Technology	Original unmarked abstract in Clinical Imaging journal available from ResearchGate at 19 th December 2020
Yang et al. 2020 [62] (multi- national)	Original abstract, headed "withdrawn" Original PDF full text, unmarked Original supplemental material, unmarked	Authors	Preprint server (medRxiv)	Case registry analysis	To revise with more up to date data	Original unmarked full text available on the preprint server (see left) at 19 th December 2020 Among the top 10 COVID-19 preprints cited up to 30 th April 2020 [54]
Zhang et al. 2020 [63] (China)	Only the <u>retraction notice</u> is available at the journal website	Journal	International Journal of Nursing Studies	Cross-sectional survey	Not stated	Original unmarked abstract available on ResearchGate at 19 th December 2020

Reference	Version(s) available at source journal or preprint server at 05 September 2020	Retractor	Paper source (journal or preprint server)	Study type	Retraction reason	Comments
Zhuang et	None	Journal	Chinese Journal	Test accuracy	Conclusions were based on	Cited by the US White
al. 2020			of Epidemiology	study	theory not field	House Coronavirus Task
[64]		From the	[in Chinese]		epidemiology data & thus	Force. [65]
(China)		abstract/editor office's response: The article was decided to be offline by the editorial board from the prepublish lists.			further research needed.	

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